

✓ Douglas James Hilton  
09/532,263  
**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF**  
**HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

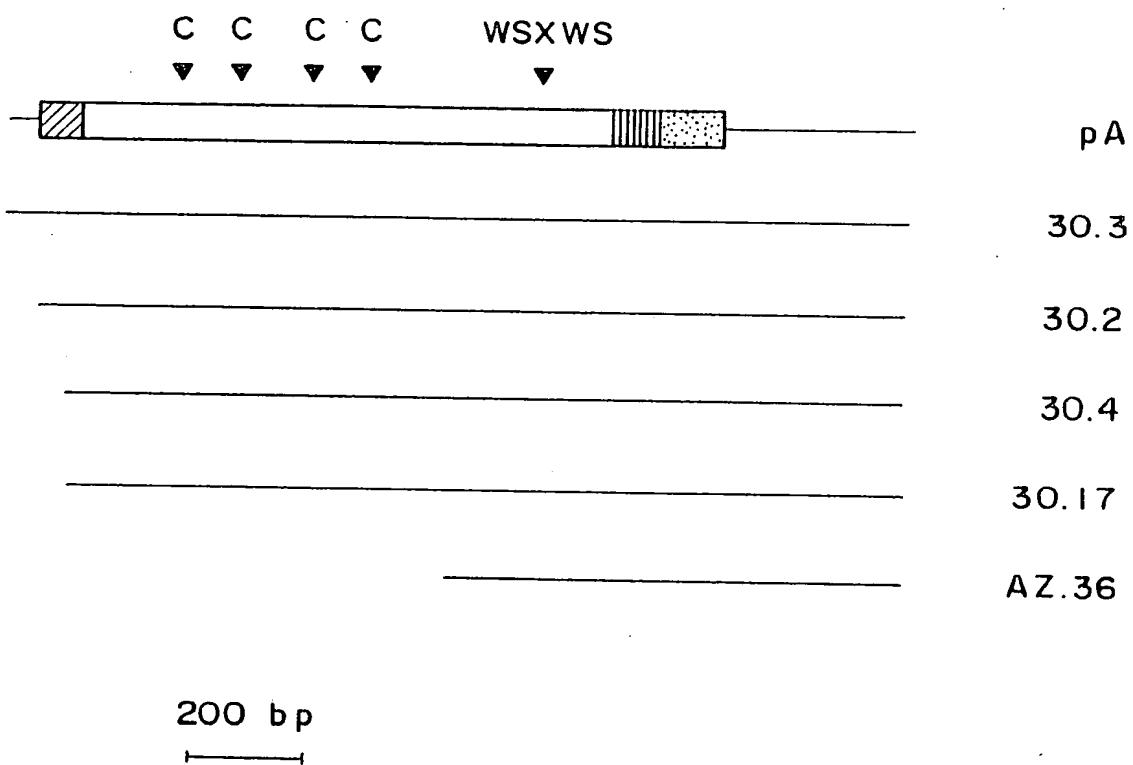


FIG. I

Douglas James Hilton  
09/532,263  
**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF**  
**HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

M NR1  
M IL-6R  
M CNTFR  
H IL-12p40  
M GM-CSFR

**IG-LIKE**

M NR1  
M IL-6R  
H CNTFR  
H IL-12p40  
M GM-CSFR

MSSSCSGLTRVLVAVATLVSSS--SPPCPQAWGPPVQYQOPGRPVMLCCPG-VSAGTP  
MLTVGGCTLLVALIAAPAVALVLGS--CRALEVANGTVTSLPGATVTLICPGKEAAGN  
MAAPVPWACCAVLLAAAA--VVYAQQRHSQQEAPHVQYERLGSDFVTLPCTGTANWDAA  
MCHOOLVVISWESLVLASPLVVAIWELKKDVYVVVELDWYPDAPGEMVVLTCDTPEEDG-  
MTSSHAMNITPLAQALLFSTLLIPGTO--ALLAPT-TPDA-GSALNLTFDPWTRT--

M NR1  
M IL-6R  
H CNTFR  
H IL-12p40  
M GM-CSFR

M NR1  
M IL-6R  
H CNTFR  
H IL-12p40  
M GM-CSFR

-VDWFRDGDSRLLQG-----  
VTIHWWVYSGSQNR-----  
-VTWWRVNGTDLA-----  
-ITWTLDDQSSEV-----  
-LTIWACDTAAGNVITVTSCTIVTSCITVTSREAGIHRRVSPFGCRCWFRRMMALHHGVTLDVNNGT

PDSGLGHRLVLAQVDSPCEGTXVCQTLDGVSAGGMVTT-  
EWTTTGNTLVLRLDVQLSDTGDXLCSLNDHLVGTVPPLL  
PDLLNGSQLVLHGLELGHSGLXACFHRSWHLRHQVL  
-LGSGKTLTIQVKEFGDAGQXTCHKGGEVLSHSLLL

LKLGF-----  
VDV-----  
LHVGL-----  
LHKKEDGIWSTDILKDQE  
VGGAAGAHWRLS-FVNEAAA

FIG. 2A

A

A

Douglas James Hilton  
09/532,263  
**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF  
HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

A

SD100A

M	NR1	PPARPEVSCQAVDX - EMFSCTWSPGQVSGLPTRYLTSYRKKTI,PGAESQRESPTSTGPWP
M	IL-6R	PPEEPKLSCFRKNPPLVMAICEWRPSSTPSPTTKAVLFAKKINTNGK - - - SDFQVP
H	CNTFR	PPREPVLSCRNSNTXPKGFYCSWHLPTPTYIPNTFNVTVLH - - - GSKIMV
H	IL-12P <sup>4</sup> 0	PKNKTFRLCEAKNYSGRFTCWWLTTI - - - STDLTF SVKSSRGSS - - - DPQGVT
M	GM-CSFR	GSGAENLTCEIRAA-RFLSCAWREGPA - - PADVRYSLRVLNST - - - GHDVAR

M NR1 CPQDPLE - - - AELWSEYRTNVTEVNPL - - - GASTCLLD  
M IL-6R CQYSQQLK - - - SFSCQVE - - - ILEGDKVYHIVSLCVANSVGSKSSHNE  
H CNTFR CEKDPAL - - - KNRCHIRYMHLFSTIKYKVSISSNAL - - - GHNATAIT  
H IL-12P<sup>4</sup>0 CGAATLSEAERVRGDNKEYEYSVECQEDSACPAAKESLPIEVMDAV - - HKLKYENYTSS  
M GM-CSFR CMADPGDDV - - - ITQCIA - - - NDLSLLGSEAYLWVTGRSGAGPVRFLDD

M NR1 VRLQSTILR - - -  
M IL-6R AFHSLKMQVQ - - -  
H CNTFR FDEFTIVK - - -  
H IL-12P<sup>4</sup>0 FFIRDIIK - - -  
M GM-CSFR VVATKALERLG

B

FIG. 2B

Douglas James Hilton  
09/532,263

**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF  
HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

B

SD100B      M NR1      PDPPQGLRVESVPGYPRRLHGSMWTPASWPRQPHFL-----LKRLQXRPAQHPAWSSTV  
              M IL-6R      PDPBPANL,VVSAIPGGRPRWLKVSWQHQPEIWDPDY-YL-----LQFQLRXPVWSKEFTVVL  
              H CNTFR      DPDPENVVARPVPSNPRRLEVTWOTPSTWPDPESFPLKFF-LRYRPLLIDQWQHQVELSD  
              H IL-12P40    PDPPNNLQLK-PLKNSRQVEVSWEEXPDTWSTPHSYFSLTFCVQVQGKSREKKJDRVFTD  
              M GM-CSFR    -- PPRDVT--ASCNSSSHCTVSWAPPSTWASLTARDFQFE-VQWQSAEPGSTPRKVLVV

M NR1      RPIGL--EVITDAVAGLPMAVRVSAARDFLDAGTWSAWSPEAWGTPSTG-PLQDEIPD-  
M IL-6R      LLPVAQYQCVIHDALRGVKMVQVRGKEELDLGOWSEWSPEVTGTPWIAEPRTPAGIL  
H CNTFR      GT-----ANTITDAYAGKEYIIQVAKDNEI-GTWSDWVAAHATPWTEEPRHLITTEAQ  
H IL-12P40    KT-----SATVTCRKNASISVRAQDRYYSSSWSEWAWSVPCS\*  
M GM-CSFR    KETRL---AFPSAPAPHGMKVKVRAGDTRMK-HWGGEWSPAHPL-EAEDTRVP-----

WSOGHGOOLEVVVAQEDSPAPARPSIQPDPRPLDHRDPLEQ  
WNPTQSVEDSANHEDQYESSTEATSVLAPVQESSSMSLPT  
AAETTTSTSSSLAPPPTTKIC-----

VAVLASLLGIFSCGLAVGALALGLWLRLRRSGKDGPQKGLLA--PMIPVEKILFGIPN  
FLVAGGSLA**FGLLICVFILL**--RLKQWKSEAEKESKTTSPPPPYSLGPLKPT  
DPGELGSGGGPSAPFLVSVPITLAIAAAATASSLLI\*  
ALLYAVTACAVLLCALGVTC--RRFEVTRR-----LYPPIPGIRD

TM/CYT      M NR1      LQRTPENFS\*  
              M IL-6R      FLLVPLLTPHSSGGSDNTVNHSCLGVRDAQSPYDNSNRDYLFP\*

M GM-CSFR    KVSSDDVVRVNPETLRKDLLQP\*

C

FIG. 2C

Douglas James Hilton  
09/532,263  
**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF  
HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

TCTAACAGCC TTACCCACT TGGTCATCA ATTTTCTCC TAGGAAGCCT CAGTTTGAA 60  
GAGGAAGAGC CAGGCTTTAG CTCCCATCTC AGGGGTGGG GATTTTGAC TCTACCTCTC 120  
CCCACAG ATG AGC AGC AGC TGC TCA GGG CTG AGC AGG GTC CTG GTG GCC 169  
Met Ser Ser Cys Ser Gly Leu Ser Arg Val Leu Val Ala  
1 5 10  
GTG GCT ACA GCC CTG GTG TCT GCC TCC CCC TGC CCC CAG GCC TGG 217  
Val Ala Thr Ala Leu Val Ser Ala Ser Ser Pro Cys Pro Gln Ala Trp  
15 20 25 30  
GGC CCC CCA GGG GTC CAG TAT GGG CAG CCA GGC AGG TCC GTG AAG CTG 265  
Gly Pro Pro Gly Val Gln Tyr Gly Gln Pro Gly Arg Ser Val Lys Leu  
35 40 45  
TGT TGT CCT GGA GTG ACT GCC GGG GAC CCA GTG TCC TGG TRT CGG GAT 313  
Cys Cys Pro Gly Val Thr Ala Gly Asp Pro Val Ser Trp Phe Arg Asp  
50 55 60  
GGG GAG CCA AAG CTG CTC CAG GGA CCT GAC TCT GGG CTA GGG CAT GAA 361  
Gly Glu Pro Lys Leu Leu Gln Gly Pro Asp Ser Gly Leu Gly His Glu  
65 70 75  
CTG GTC CTG GCC CAG GCA GAC AGC ACT GAT GAG GGC ACC TAC ATC TGC 409  
Leu Val Leu Ala Gln Ala Asp Ser Thr Asp Glu Gly Thr Tyr Ile Cys  
80 85 90  
CAG ACC CTG GAT GGT GCA CTT GGG GGC ACA GTG ACC CTG CAG CTG GCC 457  
Gln Thr Leu Asp Gly Ala Leu Gly Thr Val Thr Leu Gln Leu Gly  
95 100 105 110

A

FIG. 8A

A

Douglas James Hilton  
 09/532,263  
**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF**  
**HUMAN IL-11 RECEPTOR**  
 Docket: 10296A  
**REPLACEMENT SHEET**

A

TAC CCT CCA GCC CGC CCT GTT GTC TCC TGC CAA GCA GCC GAC TAT GAG		505
Tyr Pro Pro Ala Arg Pro Val Val Ser Cys Gln Ala Ala Asp Tyr Glu		
115	120	125
AAC TTC TCT TGC ACT TGG AGT CCC AGC CAG ATC AGC GGT TTA CCC ACC		553
Asn Phe Ser Cys Thr Trp Ser Pro Ser Gln Ile Ser Gly Leu Pro Thr		
130	135	140
CGC TAC CTC ACC TCC TAC AGG AAG ACA GTC CTA GGA GCT GAT AGC		601
Arg Tyr Leu Thr Ser Tyr Arg Lys Lys Thr Val Val Leu Gly Ala Asp Ser		
145	150	155
CAG AGG AGG AGT CCA TCC ACA GGG CCC TGG CCA TGC CCA CAG GAT CCC		649
Gln Arg Arg Ser Pro Ser Thr Gly Pro Trp Pro Cys Pro Gln Asp Pro		
160	165	170
CTA GGG GCT GCC CGC TGT GTC CAC GGG GCT GAG TTC TGG AGC CAG		697
Ile Gly Ala Ala Arg Cys Val Val His Gly Ala Glu Phe Trp Ser Gln		
175	180	185
TAC CGG ATT AAT GTG ACT GAG GTG AAC CCA CTG GGT GGT GCC AGC ACA		745
Tyr Arg Ile Asn Val Thr Glu Val Asn Pro Leu Gly Ala Ser Thr		
195	200	205
CGC CTG GAT GTG AGC TTG CAG AGC ATC TTG CGC CCT GAC CCA CCC		793
Arg Leu Leu Asp Val Ser Leu Gln Ser Ile Leu Arg Pro Asp Pro Pro		
210	215	220
CAG GGC CTG CGG GTA GAG TCA GTA CCA GGT TAC CCC CGA GGC CTG CGA		841
Gln Gly Leu Arg Val Glu Ser Val Pro Gly Tyr Pro Arg Gly Leu Arg		
225	230	235

B

FIG. 8B

B

Douglas James Hilton  
09/532,263  
**NUCLEIC ACID ENCODING  $\alpha$  CHAIN OF  
HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

GCC	AGC	TGG	ACA	TAC	CCT	GCC	TCC	TGG	CCG	TGC	CAG	CCC	CAC	TTC	CTG	889		
Ala	Ser	Trp	Thr	Tyr	Pro	Ala	Ser	Trp	Pro	Cys	Gln	Pro	His	Phe	Ieu	937		
240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320		
CTC	AAG	TTC	CGT	TTG	CAG	TAC	CGT	CCG	GCG	CAG	CAT	CCA	GCC	TGG	TCC	937		
Leu	Lys	Phe	Arg	Leu	Gln	Tyr	Arg	Pro	Ala	Gln	His	Pro	Ala	Trp	Ser	985		
255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335		
ACG	GTG	GAG	CCA	GCT	GGG	CTG	GAG	GTG	ATC	ACA	GAT	GCT	GTG	GCT	1033	1081		
Thr	Val	Glu	Pro	Ala	Gly	Leu	Glu	Val	Ile	Thr	Asp	Ala	Val	Ala	340	345	350	
GGG	CTG	CCC	CAT	GCT	GTA	CGA	GTC	AGT	GCC	CGG	GAC	TTT	CTA	GAT	GTG	11129		
Gly	Leu	Pro	His	Ala	Val	Arg	Val	Ser	Ala	Arg	Asp	Phe	Leu	Asp	Ala	355	360	365
GGC	ACC	TGG	AGC	ACC	TG3	AGC	CCG	GAG	GCC	TGG	GGA	ACT	CCG	AGC	ACT	1177	1225	
Gly	Thr	Trp	Ser	Thr	Trp	Ser	Pro	Glu	Ala	Trp	Gly	Thr	Pro	Ser	Thr	355	360	365
GGG	ACC	ATA	CCA	AAG	GAG	ATA	CCA	GCA	TGG	GGC	CAG	CTA	CAC	ACG	CAG	1177	1225	
Gly	Thr	Ile	Pro	Lys	Glu	Ile	Pro	Ala	Trp	Gly	Gln	Leu	His	Thr	Gln	355	360	365
CCA	GAG	GTG	GAG	CCT	CAG	GTG	GAC	AGC	CCT	GCT	CCA	AGG	CCC	TCC	1177	1225		
Pro	Glu	Val	Glu	Pro	Gln	Val	Asp	Ser	Pro	Ala	Pro	Pro	Arg	Pro	Ser	355	360	365
335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415		
CTC	CAA	CCA	CAC	CCT	CGG	CTA	CTT	GAT	CAC	AGG	GAC	TCT	GTG	GAG	CAG	1177	1225	
Leu	Gln	Pro	His	Pro	Arg	Leu	Leu	Asp	His	Arg	Asp	Ser	Val	Glu	Gln	355	360	365

三

三

FIG. 8C

Douglas James Hilton  
09/532,263  
**NUCLEIC ACID ENCODING α CHAIN OF  
HUMAN IL-11 RECEPTOR**  
Docket: 10296A  
**REPLACEMENT SHEET**

D  
FIG. 8D  
CHROMATING SAGITTALIAE TAG  
1800